25X1

Approved For Release 2005/11/21 : CIA-RDP78B05171A000500020066-1

[redacted]

March 1, 1971

Attention: John C.

Dear John:

Enclosed please find three copies each of the following:

Activity Summary No. 30
25X1 [redacted]/2201201-AS-30

Technical Progress Report No. 10
25X1 [redacted]/2201201-TPR-10

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Sincerely,

[redacted]

Senior Staff Scientist

PSC/c
Enclosures

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WHEN SEPARATED FROM CLASSIFIED
ATTACHMENTS

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Declassification Review by NGA/DoD
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[redacted] log # 2-73 25X1

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HQ 25X1

Copy No. 6 of 6 - 1

[redacted]

March 1, 1971

ACTIVITY SUMMARY

To: John C.

From: [redacted] 25X1

Subject: Activity Summary
Facility Visit, [redacted]

Reference: [redacted] 2201201-AS-30 25X1

Dates: February 24-26, 1971

On February 24 - 26 [redacted] visited 25X1
the sponsor laboratory for programmed activity under Contract
25X1 [redacted] During this trip a series of dupe positive images were processed through the OIM system. Prints of many of these images were mounted in a notebook. It is our objective to put together a set of illustrations so that a comparison of unprocessed and processed imagery can be made, and that, with a volume of illustrations, we can demonstrate expected output with the laboratory system. This work with operational materials will be continuing during the coming weeks.

The details of the work performed are included in the laboratory notebook, copies of which are sent with monthly letter reports. Plans for the coming week include a review of more material for input to the OIM system, design of plates for methods, pursuance of edge selection for edge trace analysis, and a review of measured data from the sine wave and line target imagery.

The next trip is scheduled for [redacted] on 3,4 March 1971 25X1

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Program Plan

To: John C.
From: [redacted]
Subj: Program Plan, Week of 1 March, 1971

26 Feb., 1971

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The optical image manipulation effort performed during the past three days is directed to demonstrate the output that can be obtained through such a "viewing/printing" system. It is our objective to put together a series of illustrations that will demonstrate typical output. This means that expected output will be imagery with improved information extraction capability. Sometimes this will be illustrated in the case where information will be brought above the conventional threshold, and what otherwise would not be seen can be detected. Other cases will illustrate the increase of contrast and edge sharpness that enhances object acuity. Both these results are the objective of O.I.M.. The former will occur only under certain specific conditions where information is just below threshold. The latter affect will occur in general. We want to demonstrate these typical results with a series of OIM results from operational material. The intention is to put together an album of photos comparing processed

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vs. unprocessed imagery.

Given the conditions under which we must operate, the input target must be assumed to be the original that we compare processed imagery with. Only when we have complete control of dupe quality from the ON can any other assumption be taken.

We will therefore continue, for the next month, selecting imagery and processing it for the above described album of photographic results. During this time we should perform visual assessment of the system operation.

During this time period we should also work on reducing the line target data and performing edge trace analysis, to characterize system behavior.

We will also be continuing emphasis on the phase plate design and fabrication. [redacted] will deliver design specs for filters the week of 1 March. [redacted] will visit the lab the week of 8 March.

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1. Reduce and plot data for long line bar target.
2. Continue the phase plate fabrication routine that is set up.
3. Fabricate edge target on diazo
4. Process the edge target through the system record with step wedge, and input for edge trace analysis.
5. Obtain more samples for processing, as potential candidates for the album of results.
6. Specify phase plate designs for coherent work.

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